

Objectives

- SLogo Planning

SLogo Information

- On Final Project page, for each team
 - Statistics
 - Documentation

Today's Goals

- Planning: Design and Analysis
 - What are the components that need to be completed?
 - How should we complete those components?
- More code iteration
 - Make sure you understand the code base
- More team collaboration

You have all the skills needed
to understand this code base

What Steps Need To Be Completed?

- By the Team
- Process to figure out what needs to be completed

What Steps Need To Be Completed?

- Model: Turtle
 - API
 - State
- GUI
 - Canvas – displays turtle
 - Command interface
 - Listeners
 - Multiple workspaces
 - Turtle info displayed (toggable)
 - More options/buttons (optional)
- **TESTING!**
- Parsing SLogo language
 - Handle instructions
 - Handle *aliases*
 - **Handle errors** appropriately
- Evaluating expressions
 - Manipulate turtle
- File handling
 - Read file of SLogo files
 - Save SLogo commands

Dependencies?

Dependencies

- Interpreter classes (tokens, analyzer, expression) are very dependent on each other
- Need to hook GUI to Interpreter
- Need to hook Turtle to GUI and Interpreter
- Can test without other pieces
 - Good first step
 - But, easier and more satisfying to see results displayed

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Effect of Extensions

- Extensions could affect your code design
 - Where could change → abstraction
- Decision?
 - May change your minds after start working on the code
 - Deadline: Wed, Dec 7
 - Top vote getters

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Plan

- Tasks/Steps
 - Testing
 - Think about iterative development
 - Wednesday deadline: FD 50 working at least
- Division of tasks
 - # of people per part
- Deadlines

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Goals

- Implement one instruction completely
 - Involves a lot of different pieces
- Don't go too far in breadth, more depth
 - See design issues sooner
 - "We need method/functionality X in class Y"

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Secondary Goals

- You're going to figure out that your design isn't perfect--maybe not even good!
 - Fix smaller and/or more critical things
 - Refactoring!
 - Note larger things
 - analysis/post-mortem due at end of finals week

Good judgment comes from experience.
How do you get experience?
Bad judgment works every time.

TODO

- Recommendations
 - Review the Javadocs – abstraction of the code
 - Add more comments as you understand pieces of the code.
 - Trace through the code
 - Two starts: SLogInterpreter and TurtleField
 - Break into small pieces
 - Draw pictures
 - Leverage the team
- Lots of thinking before implementation
 - How should components work together?
- Preliminary Implementation: Wed, November 30

Design Questions

- How do you want the GUI to look?
- How will the commands manipulate the turtle?
- How will you handle aliases?